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RAPID OPERATION OF A TAINTER GATE: EXPERIMENTAL INVESTIGATION OF THE UPSTREAM TRANSIENT MOTION

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HIGHLIGHTS

- + A series of detailed unsteady measurements was conducted upstream of a gate.
- + Both rapid gate opening and closure were tested.
- + Instantaneous water elevations and velocities were recorded systematically.
- + Large free-surface and velocity fluctuations were measured beneath the surges.
- + Tests showed optimum conditions to scour silted canals.